

# FOLIO

## GFC endorses increases to undergraduate enrollment quotas, targets

**Postsecondary institutions doing a good job of maintaining access — Ady**

By Michael Robb

The Acting Vice-President (Academic), Roger Smith, wished the proposal wasn't before General Faculties Council. Others suggested the University was damned if it did and damned if it didn't. And still others lamented the fact the University was unfortunately turning away qualified applicants in some programs.

In the end, however, in the face of declining enrollments, GFC members put their stamp of approval on a proposal from Dr Smith to raise some undergraduate enrollment quotas and targets, beginning in 1995-96. The proposal will also go before the Board of Governors for its consideration.

"It's important to understand that the Faculties must work towards achieving these new targets if we're not going to be subject to a substantial reduction in our government grant for our 1995-96 activities," Dr Smith told GFC 3 April.

Since 1990, the University's budget has become much more sensitive to student enrollment. Tuition has more than doubled, and the provincial government has said that for each student below the enrollment peak reached in 1993-94 less a



Roger Smith, Acting VP (Academic)

two percent margin, its grant would be reduced by \$2,500. That's put pressure on the University to sustain its enrollment. "There is a significant incentive for the University—at least in the short run—to set an undergraduate enrollment target that avoids the \$2,500 penalty," the Vice-President outlined. The University would also lose tuition revenues.

Undergraduate enrollments, excluding unclassified students, reached 24,612 in 1993-94. That fell to 23,763 in 1994-95. Existing quotas and targets total 23,385. And since that total includes 250 in Faculté Saint-Jean and Native Studies targets that are unlikely to materialize, existing achievable targets total about 23,150. According to Dr Smith, to reach the 1993-94 enrollment of 24,612, the University has to raise its undergraduate enrollment targets substantially—perhaps by as much as 1,450. The government gives the institution a year to recover. "We fell below in 1994-95, so the penalty will not be imposed unless we are still below in 1995-96," he explained.

This provincial government policy is counterproductive, said Dr Smith. "The government has worked very hard to get this University to cooperate with colleges and other postsecondary institutions to enhance transfer programs, to encourage students to take their first and second years at colleges before coming to the University."

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ture of issues-related questions; each of its sections ends with a question or series of questions. Those questions are designed to provoke discussions about possible strategies, Dr Cloutier outlines.

"For the purpose of this project," he says, "I offer this statement as a comprehensive goal for a university research policy: to foster and preserve university research that is of high quality, responsive and accountable, with available resources."

Earlier this year, Advanced Education and Career Development Minister Jack Ady hired Dr Cloutier to develop a policy framework for university research, fulfilling a strategy announced last year in the provincial government's white paper, *New Directions for Adult Learning in Alberta*. The government outlined four objectives:

1) Establish goals and strategies to promote excellence and effectiveness in the university research system;

2) Identify and clarify the issues and context of university research;

to support research. The provincial government contributes about \$31 million annually, a figure that includes funding from the Alberta Heritage Fund for Medical Research. The federal government's

## Toward a policy framework for university research

**Cloutier's discussion paper aims to initiate debate**

By Michael Robb

How can Alberta's universities maintain and improve the quality of their research activities at a time when resources are limited? That's one of the central questions Gilles Cloutier raises in his recently released discussion paper *Toward a Policy Framework for University Research*.

Some of the questions are provocative. For example, Is it possible to identify a limited number of priority areas where major concentrations of resources should be used? Is it possible to identify complementary areas of research at the two major universities, so in the longer term they can share responsibilities in certain areas? And could the two major universities look at dividing responsibilities for graduate programs in areas where critical resources are needed for offering top quality training?

The paper is designed to serve as a catalyst from which discussions about the future of university research in this province can proceed. The paper raises a multi-



Photo Services

**Going the extra mile: Psychology Professors Don Heth, left, and Ed Cornell, along with Constable Paul Olmstead, Edmonton Police Service, consult city and campus maps in conjunction with research into the way finding abilities of children. Please story page 6.**

## AAS:UA reaches memorandum of agreement with University

By Folio staff

The Association of Academic Staff and a Board of Governors negotiating team have reached a memorandum of agreement on changes to the collective agreement.

It was expected that the memorandum of agreement would be debated this week by the AAS:UA Council. "Council will review the document and decide whether or not to go forward for ratification," AAS:UA President Ann McDougall said last week. "If it decides 'no', in principle we go back to the negotiating table.

"Given our particular circumstances, this means reporting to the Minister that we have failed to reach agreement and

requesting a further extension. If Council decides 'yes', the document will be mailed out immediately to the membership for ratification."

The AAS:UA Council, if it approves the memorandum of agreement, will provide its membership with details and convene a general information meeting.

Late last fall, the provincial government directed postsecondary institutions to examine and, if necessary, renegotiate collective agreements by 1 March 1995, to ensure that they have the flexibility to terminate academic staff, with appropriate compensation, in cases of program redundancy or financial exigency.

3) Raise the level of awareness of the role of university research in the economy and society; and,

4) Outline a clear role for the department in the area of university research.

In Alberta, universities receive about \$150 million annually in external funding

**"I offer this statement as a comprehensive goal for a university research policy: to foster and preserve university research that is of high quality, responsive and accountable, with available resources."**

Dr Gilles Cloutier

granting agencies contribute about \$65 annually, and the balance of about \$54 million is provided in roughly equal amounts by business, nonprofit agencies and other governments.

According to Advanced Education estimates, between 30 and 40 percent of its operating grant is used to support direct and indirect costs of university research. The department bases that estimate on University of Alberta and Canadian Association of University Business Officers sources.

Dr Cloutier raises other questions: How might the private sector be encouraged to make a larger contribution to research? Can universities identify the stresses placed on them as a result of indirect costs of research? Is there consistency between individual teaching/research workload and academic unit and university expectations? How can universities increase their responsiveness to the needs

*Continued on page 4*

# Library adds table of contents data to records

**Users can browse contents without leaving the terminal**

By Folio/Library staff

The University Library is hopeful a pilot project will allow students and professors greater access to the Library collection through additions to the Library's online catalogue.

The project will add table of contents and other information new to catalogue records. These enhanced records will begin appearing this month. The project will allow users of the online catalogue to browse through a book's table of contents without having to go to the shelves.

Many of the records will also have text taken from the dust jacket of books if the

information provided adds to the understanding of the work. Information about authors' institutional affiliations will also be provided when available.

Besides providing Library users with important table of contents information before going to the shelf, the new service will greatly increase subject and author access points to material in the online catalogue. All of this additional information will be accessible through keyword searching in the GATE.

Individual authors of papers and essays within books, or words in the title of

a chapter will be searchable in the online catalogue. It's expected that on average 60 percent of catalogue records for new books in all subjects will be supplied with table of contents information.

The new service is possible through an agreement with Blackwell North America and ISM Library Information Services, major vendors of books and cataloguing services to libraries. The University Library has an agreement with ISM for cataloguing services.

Students and professors who want additional information can call the reference desk at 492-3790.

# Geography and Geology merge to form Department of Earth and Atmospheric Sciences

**Arts given assurances human geography will be safeguarded in new programs**

By Michael Robb

General Faculties Council has, by a vote of 70 to 8, approved a merger between the Departments of Geology and Geography. The new unit will be called the Department of Earth and Atmospheric Sciences.

The proposal will now go before the Board of Governors for its consideration.

It's expected the merger will result in better coordination of undergraduate and graduate programs. Courses will be offered on the Earth's interior, surface and atmosphere; supporters of the merger are hopeful this combination will allow students to examine critical questions concerning regional and global changes through time.

Common introductory courses will be taken by all students in the department.

Graduate students will have easier access to experts in a broad range of specialties, while undergraduates in general, specialization and honors programs will have access to a wide range of courses.

The issue is not so much about financial savings as it is about developing new programs that serve students well and that can move forward on a firm basis, Dean of Science Dick Peter said. He acknowledged that major budget reductions created problems for each of the individual departments.

Geography Chair John Shaw said, "When your Dean tells you that you're vulnerable, obviously you pay attention. That has something to do with it [the merger]." However, Dr Shaw said he was pleased with the way the academic side of the merger is working out.

"We think it important that the University should consider how it will continue to offer support in the areas of human geography," said Dean of Arts Patricia Clements. Dr Peter responded that the new department would maintain

adequate resources so the Arts minor and major in geography could be maintained.

"We haven't detailed all the new programs the new department intends to bring forward; those will come through the usual GFC approval process," he said, adding that the new program proposals will be passed soon by the respective Faculty councils.

Dr Shaw said the continuation of human geography on this campus was his main concern when the merger was first proposed. "I'm pleased to be able to say that we can continue, and if human geography should thrive then perhaps it can grow too."

Brian Jones, who has been Chair of Geology for the past year, will be Chair of the new department. His term of office runs to 30 June 1999.

The amalgamation is not expected to affect enrollments. Graduate and undergraduate students enrolled in the existing departments will complete their programs according to current calendar guidelines.

Geography was established at the U of A in 1957, and Geology was established in 1912.

# EMBA prepares for fall start

**Information sessions well attended**

By Elizabeth Clark

The innovative Executive Master of Business Administration (EMBA) program, offered jointly by the University's Faculty of Business, and The University of Calgary, is gearing up for a fall '95 start. If response to date is any indication, the program is destined for success. Two recent information sessions in the city have drawn more than 100 interested young executives and there are daily calls about the program as well.

According to Rodney Schneck, Dean of Business, the program is aimed at "helping practising managers develop entrepreneurial, administrative and personal leadership capabilities necessary for them to shape their organizations' destinies in today's competitive environment."

A two-year program designed to accommodate up to 25 students in each city, the EMBA will offer the course content of the MBA in an executive delivery mode. One strength of the program is its collaborative nature; another is its schedule. Set to run every second Friday and Saturday for two years, the partnership means that the two universities can draw on specialists in both Faculties to move back and forth and offer the same courses in both cities. It also means that participants can continue full-time employment and apply day-to-day experience to the program and vice versa.

Jim Dunn, Associate Program Director, says, "There is no question that the learning environment will be rigorous and challenging. It will encourage maximum benefits of integrated learning through study and work. The rewards in the workplace will begin right away."

The program will also be competitive: tuition is \$15,000 per year plus books, travel and expenses. At an estimated price tag of \$35,000, the program costs significantly less than those offered elsewhere in Canada and the US.

Applicants will normally have a minimum of seven years' work experience, an undergraduate degree, competitive GMAT (Graduate Management Admission Test) scores and exceptional letters of reference. Graduates of the program receive a fully accredited MBA degree.

A final information session will be held at The Centre Club on Wednesday, 26 April, at 5:30 pm. More information may be obtained by calling 492-1371.

*Editor's note:* Elizabeth Clark is Director of Development and Community Relations for the Faculty of Business.

# Help give new student information system a name

By Brian Silzer

The latest addition to the University's data systems is the S.C.T. Banner Student Information System. This new system will replace the aging Cumulative Academic Records System (CARS) over the next 24 months. We now need a name or acronym for our new system that students and staff can identify with. So, put your creative urges to work and send us your ideas and suggestions.

Please address your suggestions (by 12 May 1995) to: System Name, Office of the Registrar and Student Awards, 201 Administration Building.

The winner of our "Name the Student Information System Contest" will receive a U of A sweatshirt and an S.C.T. Banner coffee mug.

## FOLIO

Volume 32 Number 30

OFFICE OF PUBLIC AFFAIRS,  
400 ATHABASCA HALL  
UNIVERSITY OF ALBERTA, EDMONTON,  
ALBERTA T6G 2E8  
TEL: (403) 492-2325 FAX: 492-2997  
E-mail: public.affairs@ualberta.ca

Tony Myers: Director, Office of Public Affairs

All enquiries and correspondence should be directed to:  
RON THOMAS: Editor  
MICHAEL ROBB: Assistant Editor

CONTRIBUTORS:

Elizabeth Clark  
Morna Fraser  
Dianne Godkin  
Judy Goldsand  
Dinah Gray  
Sandra Halme  
Tony Myers  
Elsa Roehr  
Brian Silzer

Graphic Design: Ray Au

Public Affairs produces *Folio* on a regular basis for employees and volunteers at the University of Alberta.

*Folio's* mandate is to serve as a credible news source internal audiences by communication accurate and timely information about issues, programs, people and events.

**DEADLINES:**

Notice of coming events: 9 am three weeks in advance of event. Classified advertisements: 3 pm one week before desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 40 cents per word with no discount for subsequent insertions. There is a limit of 40 words and a minimum charge of \$2.00. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

Display advertisements: 3 pm Friday, seven days before desired publication date. Camera-ready artwork is required to size, complete with halftones if necessary. Call 465-3307 for sizes, rates and other particulars.

The editor reserves the right to limit, select, edit and position submitted copy and advertisements. Views expressed in *Folio* do not necessarily reflect University policy. *Folio* contents may be printed with acknowledgment.

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University  
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Karl Maramorosch: a major contributor to the understanding of plant virus infections.

Dr Maramorosch, who is regarded by many as the leading invertebrate tissue culture authority, has served as a consultant to the Food and Agriculture Organization of the United Nations in the Philippines, Thailand, India, Sri Lanka and Ghana.

Dr Maramorosch can be reached by contacting Dr R Marusyk (Medical Microbiology and Infectious Diseases) at 492-2308, or Dr C Hiruki (Agricultural, Food and Nutritional Science) at 492-4119.

# Interdisciplinary team developing innovative way of attacking cancer cells

**Engineers, radiologists, oncologists, surgeons and chemists join forces**

By Michael Robb

They say cancer can be beaten. But many researchers and clinicians working in the field are convinced it won't happen without a lot of interdisciplinary research and collaboration.

A team of University of Alberta and Cross Cancer Institute researchers working in the basic and applied sciences has made major advances in the development of the high-tech cancer treatment called photodynamic therapy (PDT). Using a pigment extract from a Chinese fungus, called hypocrellin B, the team has been able to kill cancer cells with laser light directed at the pigment acting as a photosensitizers.

## Members of the interdisciplinary team:

**Bill Lown**, Department of Chemistry professor: interested in developing photosensitizers

**Ron Moore**, researcher and physician at the Cross Cancer Institute: interested in using photodynamic therapy to destroy cancer cells

**John Tulip**, Electrical Engineering professor: conducting laser work and refining photodynamic therapy

**Jixiang Liu**, Postdoctoral fellow recruited by Dr Lown from an Institute of Photobiology in Beijing: working on basic chemistry

**Zhenjun Diwu**, Postdoctoral fellow also recruited from an Institute of Photobiology in Beijing: now working in the US

**Malcolm McPhee**, clinical professor, director and program chair of Division of Urology, University of Alberta; physician, surgeon, urologist and director of the Department of Surgery at the Cross Cancer Institute: educates surgery residents

**Jerry Miller**, cell biologist/radiobiologist at the Cross Cancer Institute: examining the biological characterization of the photosensitizing compounds in tissue cultures and in animal tumours

**Åse Ballangrud**, Postdoctoral fellow, physicist and researcher at the Cross Cancer Institute: examining how light is absorbed and transmitted through different tissues including tumours

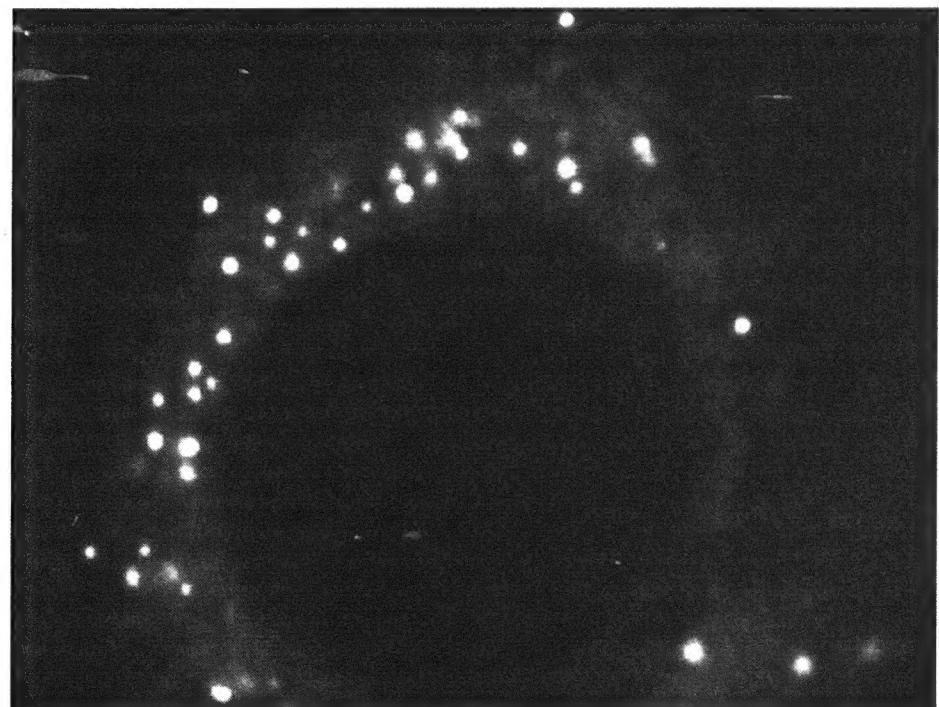
The approach isn't new. In fact, it's been around for about a decade. But what is new is the extent to which the physicians, chemists, electrical engineers and technicians have collaborated to add a new weapon to the cancer-fighting arsenal.

"It became evident that the compounds we were using weren't very good," says Cross Cancer Institute researcher Ron Moore. They were highly toxic, lingered in the body for lengthy periods of time and patients were rendered extremely light sensitive for several weeks. However, Chemistry Professor Bill Lown came along with a potential alternative, hypocrellin B—commonly used in Chinese herbal medicine.

Dr Lown had travelled to China on a lecture tour sponsored by the Medical Research Council in 1989, where he established collaborative relationships with Beijing researchers, and learned that the fungus derivative, hypocrellin B, a red pigment, had some clinical uses and was tolerated by the human body. "We realized it had some photosensitization potential because it was used to treat skin disorders with light."

The timing was good. Dr Lown's knowledge and interest in photosensitizers, the current limitations of the existing chemicals and a restructuring of the PDT group propelled the group on a different course. A great deal of pre-screening and development work has already been conducted by Dr Lown and his postdoctoral fellows. The chemists investigated the physical properties, solubility, absorption and stability of the hypocrellin B, and modified it chemically to attain better light absorption characteristics. Then they handed the improved agents over to Dr Moore and Jerry Miller, a radiobiologist also at the Cross.

"We've been trying to beat up DNA with radiation," explains Dr Moore. "Photodynamic therapy, on the other hand, doesn't target the DNA. It attacks another cellular component, the membrane." Essentially, the chemical is injected into the cancerous area, concentrating in the membrane of cells. "When the chemical is injected and activated [by light], it causes the cancer cells to die," says Dr Lown. "It's a



A single cell. The drugs are concentrated in the lightened areas; the lipids in the membrane are damaged.

very new and exciting concept in cancer treatment." In effect, holes are punched in the membranes of the cancerous cells.

Photodynamic therapy holds promise because it appears cancer cells can retain certain photosensitizing drugs in higher concentrations. "The selectivity isn't as ideal as we'd like. Some of the normal cells retain the drugs in lesser amounts," says Dr Moore. However, the team's chemists are already exploring ways to increase that selectivity, to get "true" targeting. They've also recently been able to synthesize hypocrellin B.

"It's a complex field, involving chemists, physicists, engineers, photobiologists, photochemists and physicians," says Dr Moore. "As you make modifications to the drugs [more than 40 derivatives were produced], you need to make modifications to the lasers, the light physics, and re-explore the cell cultures in the clinical setting."

Researchers from one discipline, working in isolation, would get nowhere in this field, Dr Lown says. Funding agencies have recognized that fact. Over the past several years, the PDT group has received

funding from several agencies: the Medical Research Council, Alberta Heritage Foundation for Medical Research, Natural Sciences and Engineering Research Council and the National Cancer Institute of Canada, Terry Fox Program. "The level of funding has allowed us to get serious about the collaboration," says Dr Lown.

"We're now focusing on two major lead compounds that look very promising, in terms of high potency, low toxicity and rapid excretion," he says. "There is still a considerable amount of basic research that needs to be conducted. We need to look at more selective targeting, the problems of drug delivery, and more chemistry and biochemistry still needs to be done."

Meantime, pharmaceutical companies are very interested in the work, and the researchers are planning to patent the synthetic process. With assistance from local industry, the group plans to scale up production, so they're able to provide enough material to meet the needs of Dr Moore and his colleagues' clinical trials.

## University identifies options for Michener Park

By Folio staff



Photo Services

David Bruch, Director of Housing and Food Services

**M**ichener Park Alternatives, released by the University this month, outlines 10 options for the future of the family housing complex.

The report follows extensive consultation with interested parties on and off campus, including residents, neighbours, students, faculty and community associations.

The University's Board of Governors asked the administration to conduct an extensive review of its six residences last December. The review process began with Michener Park.

The report indicates that the original design and construction of Michener Park has left the University with a facility which is costly to maintain, requires upgrading and is not attractive to student customers. The Park currently has a 25 percent vacancy rate.

As of 31 March 1995, mortgages on the complex totalled \$7.1 million. It is estimated that over the next 10 years, a minimum of \$6.5 million is required to upgrade Michener Park to a "minimally rentable level".

The alternatives proposed in the report include:

- keeping the park as is;
- upgrading and renewing the facility;
- subsidizing the Park upgrades with income from other residences;
- subsidizing Michener Park with upgrades through the sale or lease of vacant land adjacent to the Park;
- contracting a management group to operate the complex;
- convert Michener Park to a student owned cooperative;
- sell or lease to a private developer;
- relocate family housing elsewhere in the city;
- privatize the Department of Housing and Food Services, the administrative unit now responsible for the Park;
- any combination of the above.

A panel of representatives of the Board of Governors' Finance and Property Committee has invited interested parties to react to the alternatives report. Those wishing to appear before the 23 May panel have been asked to submit their comments in writing to Housing and Food Services Director David Bruch before 12 May.

The Board of Governors is expected to make a decision on the family complex at its 30 June meeting.

## RESIDENTIAL REVIEW SCHEDULE – MICHENNER PARK

1994

**16 December** – The Board Finance and Property Committee calls for review of six residences. Michener Park is the first residence to be reviewed.

**21 December** – University notifies interested parties about the review.

1995

**January** – Review begins with outline of process to stakeholder groups. Market evaluation conducted on Michener Park.

Three- to five-year projection on Edmonton residential housing market completed.

**February** – A three- to five-year profit loss statement is developed based on projected revenue and expenses, including a proposed renovation financial package.

**March** – Interested parties are invited to express their concerns and present alternatives and options.

Feedback provided from University to interested parties to confirm understanding of stakeholder views.

**April** – Michener Park Alternatives sent to interested parties and released publicly.

**12 May** – Closing date for written submission for those wishing to present to panel composed of members of the Board Finance and Property Committee.

**23 May** – Panel sits to listen to representations of interested parties.

**6 June** – Board Finance and Property Committee meets. Recommendation to the Board on Michener will be made public the same time it is sent to the Board.

**30 June** – Board of Governors meets.

# Grad students across Canada say, 'Hey, we're making an important contribution'

GSA one of many organizations to mark Graduate Student Awareness Week

By Michael Robb

They weren't storming the legislature or banging on the doors of the Parliament Buildings in Ottawa. Instead, graduate students across Canada—including those on this campus—were making public pronouncements, 3-7 April, about

## A snapshot of graduate student enrollment in Canada

- About 94,300 students are in Canadian graduate programs
- 34,400 are enrolled in natural, applied or life science disciplines, 59,900 are enrolled in social sciences and humanities
- More than 45 universities offer graduate programs
- 53.6 percent of graduate students are men, 46.4 are women
- 33 percent are enrolled in part-time studies
- In humanities and social sciences, 16.5 percent enrolled in PhD programs are international students
- In natural sciences and engineering, 39.4 percent enrolled in PhD programs are international students

the importance of graduate studies to Canadian society.

Graduate students here marked Graduate Student Awareness Week by serving free cake at a recent social event at the Graduate Students' Association Backroom Bar. The event was one of many across Canada designed to enhance the public's awareness of the importance of graduate studies, says GSA President Jay Krushell.

Graduate students contribute enormously to teaching, research and volunteerism, he said. "Graduate students conduct research in many areas that are important to Canadians: cancer and AIDS research, development of sophisticated computer software to support artificial intelligence and voice recognition technology, and risk assessment models that will help pension fund managers make safer investments."

GSA executives expressed their concerns about recent provincial cutbacks to advanced education. Executive Vice-President Amit Monga, a PhD student in Engineering Management, said, "One immediate concern is that these cuts should not

affect the quality of research at the University of Alberta. This will only be possible if the graduate students are not affected by these cuts."

"Our goal is to make Canadians from all walks of life more aware of graduate studies and the many contributions graduate students make to our great society," Canadian Graduate Council Chair Duncan Phillips said. In Canada, the events were sponsored by the CGC, a national lobby group of graduate students, representing some 22,000 master's and PhD students.

"This event offers the opportunity to stir greater public and political awareness of how important graduate studies and students are to all Canadians," Medical Research Council President Henry Friesen said. "The fact is, many of our country's leading edge health care researchers today can trace their support back to funding from MRC as graduate students."

Events were also held in the United States and Britain. In the US, the principal sponsor was the National Association of Graduate and Professional Studies; in the UK it was the National Post-Graduate Committee.

# University reaches out to media

New media guide a hit

By Folio staff

What do the *Washington Post*, *New England Journal of Medicine*, CBC National Television, *The Globe and Mail* and *Edmonton Journal* have in common? Other than the fact that they are all well-respected news outlets, they also have just received the recently published *University of Alberta Media Guide to Campus Experts*.

The *Guide*, produced by the Office of Public Affairs, is aimed at assisting the media in quickly and easily locating a University of Alberta faculty member for expert opinion or analysis on a particular subject. More than 320 journalists at major print and broadcast media outlets throughout Canada and a select number of major media (CBS News, *London Observer*, *New York Times*, etc.) throughout the US and UK were sent the publication.

To increase accessibility even further, an e-mail address for Public Affairs is included, and the *Guide* will soon appear on the Internet.

More than 600 University faculty covering some 1,500 subject areas are listed in the *Guide*. An invitation was sent to each faculty member last fall asking if they wished to participate. Submissions were then compiled and listed alphabetically according to subject area. Faculty are also listed alphabetically at the back of the book to make searching easier.

The *Guide* has received favourable reviews from the media. One senior producer with CBC Prime Time News in Toronto said, "I love that it includes e-mail addresses and home numbers - a huge advantage for journalists with the same day turnaround or deadline. It really helps to have such a good source of assistance at your university." Requests for additional copies for newsrooms are handled daily.

The cost of the publication prevents Public Affairs from distributing it to faculty, however a copy of the *Guide* is in the Library for anyone interested.

Public Affairs thanks all faculty who responded to the request for participation.

## Faculty of Arts builds community links with fifth Visiting Committee

By Morna Fraser

"Internationalism" was the theme of the Faculty of Arts fifth annual Visiting Committee program held 20 and 21 April, chaired by MLA Bettie Hewes.

Thursday afternoon, before dinner at the Faculty Club, Visiting Committee members toured the new Timms Centre for the Arts. The next day's program highlighted the international activities of the Faculty. Several Faculty members discussed the international dimensions of their teaching and research, indicating how the Faculty's international connections contribute to our community's culture and economy.

Richard Young (Modern Languages) addressed internationalism in the Faculty's curriculum; Sonia Arntzen (East Asian Studies) spoke about the value of student exchange programs; Desmond Rochfort (Art and Design) described his work with Mexican 20th century muralism; Barbara Coleman (Drama) outlined her experience in international experimental theatre; Sam Wilson (Economics) reviewed his work with CIDA in Kenya; and Richard Lynn (East Asian Studies) talked about developing partnerships between the department and the community.

After lunch with students, Visitors provided feedback to the Faculty on issues related to the international theme.

The Visiting Committee Program is aimed at strengthening communication between the University and the public. Visitors gain an understanding of a Faculty's programs and some issues of concern, and the University gains the benefit of informed public opinion and a corps of "ambassadors" in the community.

*Editors note:* Morna Fraser is the Development and External Relations Officer in the Faculty of Arts.

## CURRENTS

### Opportunities for graduate studies, University of London

An information session with Michael Miller, Academic Registrar, Royal Holloway College, University of London, will take place 28 April at 3:30 pm in the International Centre, 172 HUB International.

### Gas cylinders count

Praxair Canada Inc will conduct a campuswide count of all Union Carbide (Linde) compressed gas cylinders the week of 1 May. To ensure an accurate count, Praxair staff will have access to all buildings (staff will carry identification cards issued by the University). It's anticipated that the count will have little if any bearing on the University's daily activities.

### Biosafety course offered

The six-hour training course, Concepts in Biosafety, is scheduled for 1 and 2 May, 9-10:30 am each day, and 3, 4 and 5 May, 9-10 am each day. Also scheduled are: an optional one-hour exam, 9 am, 9 May; exam results and discussion, 9-10:30 am, 18 May; and a supplemental exam, 10:30-11:30 am, 18 May.

The cost is \$45; payment must accompany registration, and fees are nonrefundable. Deadline for registration is Monday, 24 April. For further information on the course, call Don Koziol at 492-3142.

## Cloutier's paper

Continued from page 1

of Albertans? How can the universities and Advanced Education and Career Development cooperate to respond better to community needs? And what role should the department play in fostering university research that's of high quality, responsive and accountable?

Dr Cloutier, a former president of the Alberta Research Council, has been visiting the province's universities and listening to professors and administrators' suggestions. He's expected to complete his report for the Minister by the end of June.

In related news, the Legislative Assembly has given second reading to Bill 22, an act to create a Science and Research Authority in the province. According to Dianne Mirosh, Minister Responsible for Science and Research, creation of the new authority would allow the prov-

ince to coordinate more efficiently the money it spends on research and science.

"We need to focus on increasing the return on our province's investment in science and research through activities, coordination, planning and prioritization," said the Minister. "We need a strong and well-defined strategy so that we can communicate to industry that our province is committed to research and economic growth."

The provincial government estimates that during 1994-95 its departments and agencies will spend about \$195.72 million on science and technology. Of that sum, about \$118.4 million is funnelled into actual R&D activities.

Liberal MLA Muriel Abdurahman has raised some objections to the creation of the Authority. "[This] is a piece of legislation that is bureaucratic; it's costly to the taxpayers. It's also in conflict."

Abdurahman said that the Authority's development of a science and research

policy and priorities that are "compatible with the economic and social policies and priorities of the government" was dangerous, and suggested that research on health and the environment not be conducted if it conflicted with government priorities. "When we're talking about political processes and research and science, they don't go together. They have to remain independent."

### ATTENTION CONTRIBUTORS TO THE UNIVERSITIES ACADEMIC PENSION PLAN

An error has been detected in the pension calculation example on page 9 of your handbooks circulated earlier this year. An erratum will be circulated with your 1994 Year End Contributors statement as they become available later this year.

# Education professors probing experiences of visible minority students

Workshops designed to help students assert their rights

By Michael Robb

You're on your way to campus. The bus is packed. The seat next to you is empty. The woman prefers to stand rather than sit beside you.

Or, you approach the counter and the receptionist begins speaking to you very slowly. It's clear he thinks you're a recent immigrant who can't speak or understand English.

Imagine how you'd feel in these situations. Some visible minority students don't have to imagine. It happens to them often enough.

In an attempt to determine the kind of discrimination visible minority students experience, two Faculty of Education professors have been probing visible minority students' experiences in a series of three workshops held on campus. About 45 visible minority students attended the workshops.

Virginia Cawagas, a visiting adjunct professor in the Department of Educational Policy Studies, and Toh Swee-Hin, an associate professor in the same department, say the workshops have given visible minority students the opportunity to explain some of their experiences and to offer suggestions to others on how to cope in the University environment.

"Our observations are exploratory and tentative at this stage," says Dr Toh. "One

point worth noting is that visible minority students who were born here or grew up here have been better able to integrate into the Canadian multicultural scene. Some are quite comfortable in the University environment and have good relations with their peers and professors."

Discrimination takes many forms, however. Some professors make little attempt to understand students with heavy accents. Some visible minority students brought up in a tradition where they are expected to wait their turn to speak, often realize at the end of term that they haven't had an opportunity to express their views during class, explains Dr Cawagas. In the end, they're branded as dumb or people assume that they can't speak the language adequately or confidently enough to contribute.

Black students sense the unease of others standing near them; people who ask visible minority students where they're from are sometimes subtly inferring that they couldn't possibly be from Canada, Dr Cawagas says. Visible minority students enrolled in language classes are sometimes expected to do better than their classmates, even if they're learning their heritage language for the first time. And loneliness is a problem for visible minority students, many of whom feel isolated on campus.



Visible minority students don't always feel like full members of the campus community.

The two professors plan to compile the minority students' many experiences in their report for the Office of Human Rights, and they plan to suggest some strategies for dealing with culturally insensitive actions. One of their next steps is to continue the work with smaller groups, by asking more focused questions. And it's possible workshops will be held to

teach minority students empowerment skills.

Funding for the workshops was provided by the Employment Equity Discretionary Fund, in accordance with *Opening Doors: A Plan for Employment Equity at the University of Alberta*. Graduate assistance was provided by the Department of Educational Policy Studies.

## Faculty and staff can help allay prospective students' concerns

By Brian Silzer

Applications for admission to Canadian Apostsecondary institutions are reported to be down for 1995-96. At the University of Alberta, we are also showing a decline in applications.

In part this decline can be attributed to uncertainty on the part of prospective students. Over a period of time, concerns may develop as students and their advisors struggle to sort out the many pieces of information that come at them from the institutions, the media and other sources. We are concerned when students react to misinformation and self-eliminate themselves from possible learning opportunities.

As members of the University community, we can be of assistance to these students in our regular informal contacts by helping them address the following concerns:

**Concern Number 1: "Will my average be high enough to gain access to a program at the University of Alberta?"**

In response to school officials we have published the prior years' cutoff averages for admission to our programs. We always caution students that these cutoffs vary from year to year depending on student demand for places. This is particularly true this cycle, a year in which the overall number of applications to the University is down by 12 percent. This does not mean that actual registrations will decline by this

percentage, but it is a realistic indicator of a drop in our enrollments. It does mean that the cutoff averages will be lower this year than last in many, if not all, programs.

Students who have applied to attend the University and feel that their average may not be competitive should consider sending in a second application to a transfer college. A successful year at the college can position a student for subsequent transfer to the University of Alberta.

**Concern Number 2: "Can I afford to go to University?"**

The cost of tuition and fees for the eight-month winter session is \$2,850 for a typical full-time undergraduate student. These fees are comparable to other universities in Canada. Students paying fees at this level are receiving a significant public subsidy as the provincial government

continues to cover more than 75 percent of the cost of this instruction.

The University of Alberta, through private support of alumni and friends of the University is striving to increase its pool of funds available to assist students with scholarships, bursaries and emergency loans. Through the Provincial Student Finance Board students can borrow funds to assist with their postsecondary studies. No interested and able student should be denied access to postsecondary studies for financial reasons.

The University is a significant employer of students and our cooperative study and internship programs are helping students to gain financial support and work related experience. The University of Alberta leads the nation in support for student participation in exchange programs within Canada and internationally.

**Concern Number 3: "Have government funding cuts reduced the quality of the University of Alberta experience?"**

In responding to reductions in government support the University of Alberta has tried to make adjustments that will be transparent to our most important clients - our students. Much of the impact of downsizing has been borne by reductions in compensation to staff, departmental mergers and unit level budget reductions. Areas for which we cannot ensure quality will not be sustained.

All efforts to have this advice communicated to students and their parents will be greatly appreciated. It is important that we reinforce our commitment that graduates of Alberta's high schools and colleges continue to be the priority for our instructional programs at the University of Alberta!

## LAURELS

■ Marianne Lindvall (Sessional Lecturer, Germanic Languages) was awarded the Swedish Tribune (Hommage Suedois) for promoting the Swedish language in Canada and bringing Swedish literature to Canadian readers through her work as a translator. The Swedish Tribune is awarded to Canadians who have demonstrated excellence in furthering Swedish-Canadian relations in culture, education, technology and trade.

■ Mimi Liu and Christopher Simard, pictured above right with Chancellor Lou Hyndman, are the 1994-95 recipients of the Lou Hyndman Edmonton Glenora Award. Liu, who is in her third year in the Faculty of Business, plans to enroll in the Faculty of Law upon completion of her BCom degree and hopes to work with social services, specifically with children and adolescents. Simard is in his second year in the Faculty of Law. He plans to earn an LLM degree and eventually teach law at a Canadian university. The award,



Photo Services

which has been presented annually since 1988-89, was established to "permanently recognize Mr Hyndman's substantial commitment and contribution to the public affairs of this province."

■ David Schindler (Biological Sciences) will receive an Honorary Doctor of Laws degree from Trent University later this spring. The Killam Memorial Professor of Science is well known across the continent for his work on the effects of phosphates, acid rain and global warming. Dr Schindler's academic career began at Trent, where he was an assistant professor

of biology from 1966 to 1968. Trent's Convocation ceremonies will be held 2 June.

■ Garry Smith (Physical Education and Sport Studies) was one of about 40 North American academics and government officials to attend a think tank on youth gambling issues. The event was held 6-8 April, and was sponsored by the Harvard Medical School's Division of Addictions. The main goals of the session were to document the scope of the problem and to come up with longer term strategies for dealing with the problems associated with youth gambling.

■ One of the major ways that the Students' Union shows its appreciation for people's service to the student body is the annual Gold Key Night. "It's quite special; I was thrilled to receive it [Gold Key Award]," said Lois Stanford, Associate Professor of Linguistics and former Vice-President (Student and Academic Services). Joining Dr Stanford on this year's honour roll were: Mathew Baril, Lucia Chen, Frank Coughlan, Victor Cui, Marcella Daye, Kavita Duggal, Terence Filewych, Adam Green, Alyson Hrynyk, Raheem Kherani, Sasha Krstic, Anita-Louise Moore, Scott Reeves and Tony Spagnolo.

## Juliebö, Vederas, Wayman earn Rutherford Award

This year's recipients of the Rutherford Award for Excellence in Undergraduate Teaching are: Moira Juliebö (Elementary Education), John Vederas (Chemistry) and Michael Wayman (Mining, Metallurgical and Petroleum Engineering).

The trio will be honoured at a reception at the Faculty Club, Wednesday, 3 May, at 3:30 pm. The reception is held under the auspices of the General Faculties Council Undergraduate Teaching Awards Committee.

Professors Juliebö, Vederas and Wayman will talk about teaching in the next issue of Folio.

# Research into children's way finding attracts police interest

By Ron Thomas

A child is lost in the city and a team of researchers takes its cue from the search manager. The three basic objectives are: establish containment, segment the area of containment and develop hypotheses. Each of these objectives can be elusive, but, by taking his cue from two University of Alberta psychology professors, the search manager can cut down the degree of difficulty.

A certain amount of this cue-taking has occurred in the eight years that Ed Cornell and Don Heth have been researching children's way finding. In recent months the Edmonton Police Service has shown an interest in the professors' work. Data now being analyzed in a small lab in the Biological Sciences Centre could soon be applied to searches in and around shopping malls, on busy streets or, perhaps, in vast, unpopulated areas.

Answers to questions like, How fast could a lost child move within the likely area(s) of movement? and, Can the child use certain urban catch features to determine whether they've passed out of a particular area? will allow Drs Cornell and Heth to advise a search manager how far a lost child has gone and whether the child is still in the area.

"We're finding ways of determining what particular regions they're [children] likely to be in and where they're likely to make errors [in way finding]," Drs Cornell and Heth say.

Their most recent testing exercise began last September and involved 100 children ranging in age from three to 12. For each group of 10 children the researchers

**"We're trying to look at an index of dispersion. Collaboration with the police has put a fresh spin on our work."**

Dr Ed Cornell

asked, If a youngster walked away from a certain point, for example, their home, how far could they be expected to travel in x number of minutes or hours, taking weather conditions into account? These data, which contain as-the-crow-flies distances and carefully measured distances, are being pulled together and will be used to draw a radius for actual searches.

"We're trying to look at an index of dispersion," Dr Cornell says, adding that

"collaboration with the police has put a fresh spin on our work."

Constable Paul Olmstead, of Edmonton Police Service, is stationed at West Edmonton Mall and is one of the key people in terms of the development of more advanced procedures for searching for missing children. On campus recently to see how Drs Cornell and Heth's research was progressing, he said, "This is fantastic. I had no idea you guys were this far along." He intends to invite them to give one or more presentations that, he feels, "would help our people buy into it [the research] a lot more." He also indicated that as the work progresses, Drs Cornell and Heth will "become a regular source."

Over the years, the two, with the invaluable help of undergraduate students, have conducted studies (the majority of them on campus) in which some 2,400 children and adults have participated. Children and adults were escorted on their first walk across campus and were periodically led off the original route during their return trip. During the return, the researchers stopped before intersections on and off the original route to obtain estimates of place recognition accuracy and confidence. The subjects were then

asked to point to the path that led back to the start and were corrected if wrong.

"We rely heavily on public cooperation," Drs Cornell and Heth point out. "All people who come on campus [in conjunction with the research] are volunteers."

Dr Cornell, a Berkeley grad, and Dr Heth, a Yale grad, both came to the U of A in the same year, 1975, and were assigned adjoining offices. The two joke that their collaboration began with arguments about the proper shape of a rat maze. Dr Cornell, a quantitative person, had absorbed the "T maze" teachings of Edward Tolman, while Dr Heth, an animal behaviourist, related to the "Y maze" instruction of Clark Hull. The assorted arguments were basically laid to rest when they decided to pool their considerable academic resources. The researchers are a team in every sense of the word. Dr Cornell says if he reaches an impasse it bothers Dr Heth and vice versa.

At the request of Richard Smith, a search expert with the Rocky Mountain House Detachment of the RCMP, a grant application has been forwarded to the Search and Rescue Secretariat of Canada. If successful, it would be the first such grant from that body for behavioural research.

## Quotas and targets Continued from page 1

"Indeed, this policy is causing us to be more competitive for those students who might otherwise be at those colleges, and with the overall decline in applications, that competition is becoming a very real factor," he said. "We don't want to throw all that work to develop good relationships with colleges into the wastepaper basket." Dr Smith told GFC that the University administration is discussing the issue with government officials.

The administration met with the Deans in the fall of 1994 to discuss the enrollment problems. During October and November, meetings were held with individual Deans to determine how their enrollments could be changed. "No Deans were enthusiastic about expanding their programs given the resources we were likely to make available to them," Dr Smith said.

"Nonetheless, all the Deans understood that the University would be better off not to lose both tuition and a further \$2,500 per student reduction in our grant, and that it was in our interest to try to maintain our enrollments above that 98 percent threshold."

Proposals were then developed for possible enrollment increases. Those, in turn, were considered by the President's Executive Committee.

Dr Smith told GFC that many of the University's quota programs are turning away qualified students. It varies from area to area. "But there's no question that in areas such as Science, Business, Physical Education, and Education many qualified students are being turned away and some expansion can occur in those areas."

"The elimination of the language other than English admission requirement to Arts will substantially increase the pool of students who qualify for admission to the Faculty," he continued. "We think that will allow for an expansion there without any substantial reduction in the quality of those students."

Many GFC members worried about the decline in graduate student enrollment—in particular, Dean of Arts Patricia Clements. Associate Vice-President and Registrar Brian Silzer said he was convinced the differential fee for foreign students was having an impact on enrollment. "I'd like the University to focus on the pressing need for scholarships to reward outstanding students we'd like to attract to the U of A."

Dean of Science Dick Peter said enrollment management isn't an exact science. "Surely we have to have some reason in terms of how we can come in around these numbers."

Acting Dean of Engineering David Lynch raised another concern: that it may, at some point, be necessary for the University to incur the penalties, rather than attempt to absorb the higher costs of educating students.

In the Legislative Assembly, Minister of Advanced Education and Career Development Jack Ady said that during this academic year, Alberta's universities are full and maintaining, to their credit, their level of access. "I believe the access problem in this province is being addressed...through the Access Fund.

"We expect there will be at least 10,000 spaces created with that Access Fund, and

with the initial proposals that are coming in, we're feeling very comfortable that that amount of student access will become a reality."

Liberal opposition member Michael Henry disputed the Minister's statements. "We have an access problem that's much more dramatic than what the Minister is talking about," he said. Henry suggested that more students may be taking more part-time work and not full course loads because of the higher costs of attending.

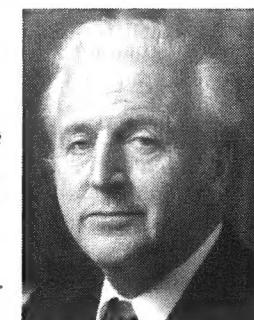
The proposed targets and quotas are as follows:

| Faculty        | Existing <sup>2</sup> | Proposed Change | New                      | FTE         |
|----------------|-----------------------|-----------------|--------------------------|-------------|
| Ag/For/HE      | 1300                  | 50              | 1350                     | 1306        |
| Arts           | 4950                  | 550             | 5500                     | 5091        |
| Business       | 1800 <sup>3</sup>     | (160)-(60)      | 1640-1740                | 1672        |
| Dentistry      | 255                   | 0               | 255                      | 255         |
| Education      | 3250                  | 150             | 3400                     | 3094        |
| Engineering    | 2300                  | 100-200         | 2400-2500                | 236-245     |
| Law            | 500                   | 0               | 500                      | 500         |
| Medicine       | 1040                  | 0               | 1040                     | 1034        |
| Native Studies | 230                   | 0               | 230                      | 210         |
| Nursing        | 1080                  | 0               | 1080                     | 799         |
| Pharmacy       | 430                   | 0               | 430                      | 427         |
| Phys Ed        | 660                   | 80              | 740                      | 713         |
| Rehab Med      | 490                   | 0               | 490                      | 483         |
| FSJ            | 700                   | 0               | 700                      | 665         |
| Science        | 4400                  | 410-610         | 4810-5010                | 4658-4852   |
| Totals         | 23385                 | 1180-1580       | 24565-24965 <sup>4</sup> | 23542-23931 |

<sup>2</sup> These are adjusted to recognize that the existing quotas in Nursing and Engineering are not consistent with earlier targets.

<sup>3</sup> Beginning in 1995, the Faculty of Business will admit students after the first year of university (or university transfer) study. This will affect some 260 students and the table above reflects the impact of this new program. In effect Business is being asked to increase the number of students in years 2 to 4 by 100 to 200 students. The 260 students who will, as first-year students, now appear in other Faculties, have been distributed – 150 to Arts and 110 to Science. As first-year Business students actually took their courses outside the Faculty of Business, these changes should not have any significant impact on the load of the receiving Faculties.

<sup>4</sup> These targets do not include increases which result from the approval of new or expanded programs funded through the Access Fund. Access Fund programs may increase the target for Science by 600 to 800 additional students over the next four or five years.



Jack Ady, Minister of Advanced Education and Career Development

"The cost of postsecondary education has risen so high that students cannot survive on the total amount that's allowed by the Students Finance Board. Students are wary of the increasing debt load they face as a result of this government's specific policies that are making postsecondary institutions less accessible to our students," Henry said.

### The enrollment scene in the Faculties ...

#### Agriculture, Forestry, and Home Economics

Applications and enrollments in the new programs have grown steadily, and admission standards are well in excess of 70 percent for high school graduates.

#### Arts

The applicant pool for the Faculty may increase by 50 percent or more, with the removal of the language other than English entrance requirement.

#### Business

Demand for programs has been substantial since a quota was implemented in 1977.

#### Education

The reduction in students in 1994-95 has been dramatic, with a 16.3 percent drop in undergraduate student enrollment and a 19 percent drop in course registrations. Enrollment will change in 1996 when the Faculty shifts to a one-plus-three program model.

#### Engineering

Recent enrollment levels indicate an enrollment target of 2,400 should be possible while maintaining grade point average standards consistent with existing and past levels.

#### Physical Education and Recreation

Admission thresholds have been high as the demand for BPE, BPE/BEd, and BA Rec Admin programs has remained strong.

#### Science

Cutoffs for admission to the Faculty were much higher this year than in the past. Increases of 300 to 500 students are possible without compromising high standards.

#### Graduate Studies and Research

Enrollment fell by about five percent in 1994-95 from the previous year. Applications for admission are substantially lower than at the same time last year.

# Collaborative nursing program gains GFC approval

Links U of A, Keyano, Grande Prairie

By Michael Robb

Nursing students in Grande Prairie and Fort McMurray will soon be able to earn University of Alberta nursing degrees by studying at their local colleges.

General Faculties Council recently approved the proposal from the University's Faculty of Nursing to establish a collaborative Bachelor of Science in Nursing program and a collaborative post-RN degree program with Grande Prairie Regional College and Keyano College. If approved by the Board of Governors, the programs would be implemented this fall.

The BScN, a four-year program, is modelled on the program offered at Red Deer College, and is designed to increase accessibility for students and nurses to baccalaureate nursing education in Grande Prairie and Fort McMurray. It's also designed to promote the baccalaureate degree as the standard, entry-level education for practising nurses, Dean Marilynn Wood told GFC.

The Dean pointed out that collaborative nursing education programs are either being discussed or established in every province.

The degree programs at both colleges will be partially delivered by videoconferencing. Core nursing courses in each of

## END OF TERM REMOTE RENEWAL SERVICE

The Humanities and Social Sciences Library is again offering its remote renewal service for end of term loans. Material can be renewed or returned at the following locations:

21 and 24 April, 1-4 pm, 2-44 Tory Building

25 April, 1-4 pm, 2-13 Arts Building

26-28 April, 1-4 pm, 3-97 Humanities Centre

Material can be renewed or returned at any of the Cameron Science and Technology branch libraries: Mathematics Library (528 CAB), Physical Science Library (72-74 Chemistry), and Computing Science Reading Room (602 General Services Building), during regular hours.

Renewal and return service is also available at BARD (Book and Record Depository), 100, 8170 50 Street, Parkway Village. Parking is free.

the four years will be delivered from the U of A via videoconferencing facilities, and teleconferencing and videotaping methods will also be used. Faculty at the University will also deliver parts of other third- and fourth-year nursing courses. According to the Dean, this arrangement will ensure that the University's academic standards will be maintained.

Initially, the organizers expect 15 Keyano students and 30 Grande Prairie students to register in the collaborative post-RN degree program. Organizers also expect that 24 students at each college will enroll in the first year of the collaborative BScN program.

"The enrollment prospects for the collaborative program at GPRC are excellent," Dorothy Eiserman, chair of the Department of Nursing Education at the college, said. "We currently have 58 applicants for 24 seats available in Year 1 of the program."

The collaborative program also has the support of regional health authorities in the northwestern and northeastern areas of the province. Employers in the northwest, explained Dr Eiserman, have difficulty recruiting and retaining nurses from outside the region. And there are predictions of shortages in the next three or four years. Furthermore, Dean Wood told GFC, historically there hasn't been much movement of nurses from the cities to the rural areas.

No new funding from the University will be required. Tuition and funding from the colleges will cover the Faculty costs associated with the delivery of the courses and the administrative costs. Tuition based on the U of A rate will be collected at the colleges for third-year courses and tuition revenue for fourth-year nursing courses will be collected by the University. If necessary, the colleges will be asked to contribute some money on an annual basis to offset the costs of distance delivery of courses.

Both colleges have strengthened their library resources in the nursing discipline, and organizers are confident the academic resources are in place to maintain standards. To date, \$30,000 worth of holdings have been added and we are working hard to identify further gaps in the collection, Gary Armstrong, GPRC chair of Library and Media Services, said.

Dennis Foth, Dean of Extension, said the two colleges and the University are to be applauded for their newly established partnership.

# Nursing students take health care to the community

Workshop on schizophrenia first of its kind

By Dianne Godkin



Sandra Hulme

Nursing students examine an anatomical teaching aid following their workshop for schizophrenia prevention and relapse. Discussing particulars are, from left, Jennifer Andersen, Sheryl Bulduc, Teresa Giesbrecht, Amara Mus, Ingrid Mayfield, Sherry Lapka, Steve Kasowski and Dawn Rudnitski. Kneeling are Nikola Johnson, left, and Jennifer Dunham. Missing from photo: Tracy Anger and Deanna Taylor.

When 12 senior nursing students learned during their clinical placement that there was a need for a program to deal with prevention and rapid recovery from relapse for schizophrenics they immediately went into action.

The students were instrumental in planning a workshop for service agencies, clients with schizophrenia and their families; the result was the first invitational workshop on "Preventing Schizophrenia Relapse: Seeking Common Ground".

By involving more than 115 people from 17 different service agencies, people with schizophrenia and their families, and the nursing students, the workshop exceeded everyone's expectations. The program was participatory in nature and organized around the need identified by the schizophrenics and families with whom the students worked. It included short presentations by health care professionals, small group discussions, a question and answer period and the viewing of a video.

According to one of the students involved in the planning and the workshop, the students came away with a sense of contributing to the well-being of the community. Sherry Lapka, in the accelerated nursing program, said the experience will

stand them all in good stead as they pursue their professional nursing careers. She also said that the students learned that, "with the shift of health care from the acute care setting to the community and the needs of the consumer becoming increasingly important, they can use the experience as a model."

One of the key points raised at the workshop was the need for more public education. Although many support services were identified as being available to schizophrenics, knowledge about these services was lacking and a number of barriers to accessing the services were identified. Among contributing factors to a relapse was financial stress experienced by schizophrenics as social assistance was not perceived as a suitable solution because its use created another set of problems as stigmas.

Schizophrenia is a chronic organic brain disease that strikes 1 in 100 people. One in 10 people diagnosed with schizophrenia commits suicide. Although there is no cure, schizophrenia is treatable with specific antipsychotic drugs.

*Editor's note:* Dianne Godkin is the Public Relations Officer in the Faculty of Nursing.

## Cindy Gordon: creating a visible difference for those with the invisible disability

By Dinah Gray

Cindy Gordon wants people who have a hearing loss to know they are not alone. One in 10 people suffers from hearing loss. It is known as the invisible disability because its sufferers are rarely profiled or recognized.

Gordon knows how people with this disability struggle. She has been hard of hearing since she was in her teens and she has experienced the difficulties people with a hearing loss face.

Fortunately, Gordon decided to apply her 10 years of professional experience as a rehabilitation practitioner, working with physically and mentally handicapped adults, to the challenge of counselling people with a hearing loss.

Gordon is the project coordinator for Hard of Hearing Resource Services (HHRS), which is offered by the Western Canadian Centre of Studies in Deafness in the Department of Educational Psychology. With the support of Dr Michael Rodda, a professor in the department, and a grant from the Wildrose Foundation received five years ago, Gordon has established HHRS as an important resource for those

in the community with a hearing loss.

People are usually referred to HHRS by any offices or agencies in Edmonton who see a client with a hearing problem. Once a person is referred, Gordon usually focuses on one-to-one counselling.

Her first goal is to make sure the people know that they have accessed a wealth of information, counselling and educational resources, designed for only two purposes, to help them come to terms with their hearing loss and to learn to cope effectively.

Coping effectively means different things to each client but Gordon says almost all clients need help in becoming better speech (lip) readers and in using hearing equipment, such as hearing aids, properly. Clients are also reached through workshops, seminars and presentations which are conducted by HHRS staff member Pat Hughes.

When Gordon isn't counselling or involved in workshops, she can be found taking noise level readings at industrial sites because she is also a registered audio-metric technician. She feels it is impor-



Cindy Gordon advises people with a hearing loss.

tant not just to focus on helping those whose hearing has already been effected but to help others by preventing ear damage from occurring. Hearing loss may be an invisible disability but Gordon is making sure as many people as possible see and reap the benefits of hard of hearing education and counselling.

## Environmental risk assessment expert to present seminar

By Folio staff

The fifth speaker for the Eco-Research Chair in Environmental Risk Management's 1994-95 seminar series is Bernard Goldstein. Dr Goldstein sits on the US National Risk Commission and is the director of the Environmental and Occupational Health Sciences Institute, a joint program of Rutgers University and the University of Medicine and Dentistry of New Jersey.

Dr Goldstein's seminar is entitled "The Characterization of Risk: Who, What, When, Where, and How Much?" It's felt that extending the characterization of risk beyond the dimension of "how much" to the dimensions of "who, what, when, where, and how much" presents an opportunity to enhance the understanding of risk by the public and the regulator, and to improve risk management.

Dr Goldstein will speak next Friday (28 April) at 1 o'clock in 2J41.02 (Classroom F) Mackenzie Health Sciences Centre.

# Math professor makes his subject matter appealing

**Byron Schmuland receives Faculty of Science Award for Excellent Teaching**

By Michael Robb

Sometimes Mathematical Sciences Professor Byron Schmuland uses interesting games in class to illustrate abstract probability theory. His "three-door" television game, his M&M case study on the distribution of colours in candy packages, or his "Gretzky problem", an exercise to predict when the Great One will break an all-time goal-scoring record, are some of his teaching tools.

Says one student, "These games really assisted me to perceive problems in a concrete way." Says another student, "... he is very generous. No matter how many

questions you are asking and how often you are going to him, you never feel that you are not welcome."

Judging by these and other comments, this year's recipient of the Faculty of Science Award for Excellent Teaching is consistently able to make the subject matter exciting and interesting. In particular, Statistics 141 tests his teaching resources. Students from many different disciplines are required to take the course, and classes are very large and frequently held in classrooms at or near their capacity.

Despite those circumstances, Dr Schmuland gets the job done. He consistently receives praise from students, who say he is always prepared, organized and committed. "He showed a concern for students' progress in the course," says a student. "He encouraged critical thinking and responsibility on the part of students as well."

He does that in all his courses, from the very large statistics courses to the small graduate-level courses. Many of his colleagues also point out that Dr

Schmuland is a leader in organizing the content of courses and monitoring how they are taught, extending his influence beyond the example he sets and the students he teaches.

Dr Schmuland earned his bachelor's degree in honors mathematics from this University in 1981 and his master's in 1983. He earned a PhD (probability theory) in 1987 from Carleton University and was appointed to the faculty of the U of A later that year.

## Planning and Development Projects Report

The following report, prepared by Planning and Development, provides an overview of some of the major University of Alberta projects which are currently under way in that Office.

### Program planning

**General and Detailed Space Programs:** Programs and accommodation plans are proceeding for:

- The Faculty of Nursing – to accommodate a provincial initiative to merge hospital schools of nursing with the Faculty of Nursing.
- Library system space – to accommodate major reorganizational changes expected in Cameron and Rutherford Libraries. Design for a Multimedia Centre in Coutts Library. Planning for 24-hour study space in Cameron.
- The Humanities Centre and Tory Building – to revise recently prepared programs and accommodation plans for occupants in light of department mergers.
- Human Resources – to provide consolidated space in response to recommendations in *Quality First*.
- Student Services – to provide consolidated space for all services in SUB.

• Geography/Geology merger – to consider merger requirements in Earth Sciences Building and Tory Building.

• Mechanical Engineering – review of large classroom space to accommodate increased class sizes.

### Land planning

**Devonian Botanic Garden:** A long-range strategic plan is being prepared to define the future program direction of the Garden, identify related physical program elements, and to assess possible development implications.

**Exterior Signs:** An exterior sign system and related sign guidelines are being prepared to improve campus way finding and access for visitors, students and staff.

### Renovations and development

**Timms Centre for the Arts:** The Centre is a 300-seat auditorium for use by the Department of Drama and other support facilities. Building construction is 99 percent complete. Building occupancy is complete and the official opening took place 30 March in conjunction with the Department of Drama's staging of "Ring Round the Moon."

**Ozawa Pavilion:** The Pavilion, located at the Devonian Botanic Garden, will be used for the Japanese tea ceremony and as

a small conference centre. Construction should conclude next month.

**Faculte Saint-Jean:** Final detailed planning is under way for renovations and a new library addition. Construction is expected to start in June of this year for completion by December 1996.

**Agriculture, Forestry, and Home Economics:** Renovations have been completed on the 1st, 2nd, 3rd and 4th floors of the Agriculture Forestry Centre, the 2nd and 3rd floor of General Services Building, 1st floor of Printing Services Building and the basement and 4th floor of Earth Sciences Building. There will be more renovations on the 2nd and 8th floors of GSB and in Printing Services Building. The mechanical systems of the Printing Services Building are being evaluated by the consultant and Physical Plant with a recommendation expected shortly.

**Education North:** Lower level renovations associated with the merging of Curriculum Materials Preparation Area (CMPA) and the Instructional Technology Centre (ITC). Construction is complete.

**Humanities Centre:** Upgrade eight 2nd floor classrooms. Preliminary design and estimate complete; detailed design under way.

**Physics – V-Wing Classrooms:** Design and cost estimate to renovate V112 as a

prototype is complete. Construction was completed during Reading Week and is now being evaluated.

### Space planning and management

Space planning and management activities include the ongoing assessment of unit space requests, space alteration proposals, overall campus space utilization, and the study of long-term space allocation possibilities. The most noteworthy projects at this time include:

- Reorganize the Faculty of Law administrative office area.
- Review Faculty of Education space.
- Expand or relocate the Industry Liaison Office.
- Relocate the Alberta International Office (after restructuring).
- Accommodate the PeopleSoft project in Human Resources.
- Finalize the plan for the creation of an additional teaching computer lab in Central Academic Building.
- Review a Physical Education and Recreation proposal for the shift of the gymnastics program and the development of a fitness centre.

Anyone wishing to obtain additional information on these projects is asked to contact Planning and Development at 492-4966.

## Continuing with April's news shower...

By Folio staff

President Rod Fraser and PJM Ssebuwufu, Vice-Chancellor of Makerere University in Uganda (pictured right, in University Hall), recently signed a memorandum of agreement which pertains to a project involving the Centre for International Education and Development in the Faculty of Education. CIED is engaged in: improving Makerere University's School of Education's capacity to train pre-service secondary school teachers; providing in-service education and upgrading for primary and secondary school teachers; and preparing teacher trainees for the local teachers colleges and the Institute of Education at Kyambogo.

◆ The Alpine Garden at the Devonian Botanic Garden has been renamed the Pat Seymour Alpine Garden after the former director of the DBG, and the pavilion being constructed in the Kurimoto Japanese Garden has been named the Ozawa Pavilion in honour of Tatsuo Ozawa, a Member of the Japanese House of Representatives, Honorary Patron of the Kurimoto Japanese Garden, and a friend of the University of Alberta.

◆ The Friends of the University of Alberta recently presented six books to the Bruce Peel Special Collections Library in honour of retiring faculty. The books are: *Cajus Valerius Catullus... Observationes*, poems by the Roman lyricist Catullus; *Historia de Juan Sebastian del Cano*, the definitive work



on the Spanish navigator and author of navigation manuals who served under Magellan; *The Wife. By Mira.... [bound with] The Husband. In answer to the Wife*, by Eliza Haywood, an 18th-century actress and author of the popular periodical *The Female Spectator*; *Satyrarum quae supersunt reliquiae*, satires by Gaius Lucilius; Herman Melville's *Narrative of a Four Months' Residence....*; and *Le Petit Livre d'Amour*, by the poet Pierre Sala.

The gift of books was funded by a bequest from Margery Mackenzie Stuart, a long-time member and former head of the Classics Department. The Friends' book presentation ceremony is held trien-

nially to honour professors who have retired within the previous three years.

◆ Going partners with ISM (Information Systems Management Corporation) will enable the U of A Library to not only avoid across-the-board budget cutting and layoffs, but also to reassess staff to help maintain high quality, client services. The Library, like other libraries, is concerned with shifting its staffing emphasis from merely processing to providing access to information on demand. As an extension of the U of A Library, ISM Library Information Services will receive materials in a wide variety of formats, subjects, and lan-

guages from the Library and its vendors. At ISM's Technical Services Processing Centre more than 30,000 items a year will be fully processed, and then shipped as "shelf-ready" products to the U of A. Using ISM's MARCADVANTAGE™ service, MARC records will be generated and edited, then delivered via the Internet using File Transfer Protocol (FTP).

Ernie Ingles, Director of Libraries, says, "By contracting for ISM's new service, we are able to predict costs over the next five years, and focus all other available resources on the teaching and research needs of our clients."

◆ In May 1993, the Rick Hansen Centre hosted a major international conference on high performance sport for athletes with disabilities—VISTA '93. The conference was unique in that it combined scientists, coaches, sport technicians and athletes in a setting where ideas could be presented and debated by all concerned. The Rick Hansen Centre recently completed the publication of the proceedings from VISTA '93; the result is two books: *VISTA '93 - The Outlook* (hardcover, 582 pages, papers and presentations) and *VISTA '93 - The Outlook Companion* (softcover, 300 pages, question and answer and discussion sessions).

The books are available from the Rick Hansen Centre for \$60 Cdn, including shipping, handling and GST (mailing overseas is an additional \$10).

## AGRICULTURAL, FOOD AND NUTRITIONAL SCIENCE

25 April, 10 am

Christophe Lacroix, STELA, Université Laval, "Immobilized Cell Technology for Continuous Milk Fermentation with Lactic Acid Bacteria." 1-13 Agriculture-Forestry Centre.

25 April, 11 am

Professor Lacroix, "Parameters of Importance for Control of Cheese Yields in Cheese Manufacturing Plants."

1-13 Agriculture-Forestry Centre.

25 April, 12:30 pm

Dong Hua, "RAPD as Molecular Marker for Resistance in Plants."

1-30 Agriculture-Forestry Centre.

26 April, 11:30 am

Karl Maramorosch, Rutgers University, New Brunswick, New Jersey "Conventional and Unconventional Search for Insect Vectors." 1-06 Agriculture-Forestry Centre.

## ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

21 April, 3:30 pm

Beat Suter, Department of Biology, McGill University, "Cell Fate Specification in *Drosophila* Oogenesis." M-149 Biological Sciences Centre.

25 April, 4 pm

Brian Burke, associate professor, Department of Anatomy, Faculty of Medicine, The University of Calgary, "Nucleo-Cytoplasmic Transport and the Structure of the Nuclear Pore Complex." Presented by Anatomy and Cell Biology. 5-10 Medical Sciences Building.

26 April, 9 am

Luciana Tessitore, Department of Clinical and Biological Sciences, University of Turin, Italy, "Choline: Liver Proliferation and Carcinogenesis." 207 Heritage Medical Research Centre.

27 April, 12:30 pm

Frederic Vellieux, Institut de Biologie Structurale, Grenoble, France, "The Structure of Ornithine Carbamoyl Transferase." 2-27 Medical Sciences Building.

## ANATOMY AND CELL BIOLOGY

26 April, noon

Andrew Howarth, "Comparison of the Molecular Properties of ZO-1 in Epithelial and Non-Epithelial Cells." 5-10 Medical Sciences Building.

# TALKS

## APPLIED SCIENCES IN MEDICINE

24 April, 3 pm

Terry Riauka, PDF, "Elliptical Bird-Cage Resonators." 10-120 Clinical Sciences Building.

## BIOETHICS

4 May, 3:30 pm

Andrew Light, "Identity Politics and the Ethics of Care." 227 Aberhart Nurses Residence, 8220 114 Street.

## CENTRE FOR GERONTOLOGY

26 April, 7:30 pm

Janet Ross-Kerr, Sharon Warren and Dianne Godkin, "The Adult Day Program Evaluation Study: Maintaining the Health Status and Quality of Life of Alberta's Frail Elderly in the Community." RSVP: 492-4718. 2-50 University Extension Centre.

## CHEMISTRY

3 May, 10 am

CIC E Gordon Young Lectureship. Michael R Hoffman, "Advanced Chemical Technologies for the Control and Remediation of Hazardous Chemical Wastes." E3-25 Chemistry Building.

3 May, 8 pm

Dr Hoffman, "Chemical Pollution of the Environment: Past, Present and Future." The King's University College, 9125 50 Street.

## EAST ASIAN STUDIES; DRAMA; COMPARATIVE STUDIES IN LITERATURE, FILM, AND RELIGION; AND THE TAIPEI ECONOMIC AND CULTURAL OFFICE IN CANADA

27 April, 11 am

Mei-shu Hwang, "The Art of the Traditional Chinese Drama." 141 Arts Building.

27 April, 2:30 pm

Sen Ma, "Modern Theater and Cinema of the New Generation in Taiwan." 141 Arts Building.

## ECO-RESEARCH CHAIR IN ENVIRONMENTAL RISK MANAGEMENT

28 April, 1 pm

Bernard Goldstein, Environmental and Occupational Health Sciences Institute, University of Medicine and Dentistry of New Jersey and Rutgers University, "The Characterization of Risk: Who, What, When, Where and How Much?" 2J4.02 Mackenzie Health Sciences Centre.

## EDUCATIONAL PSYCHOLOGY

10 May, 9 am

Ernest Rossi, psychologist, hypnotherapist, and author of *Psychobiology of Mind-Body Healing*, "An Introduction to Mind-Body Healing Theory." A workshop will be held the rest of the day. Information: Monty Nelson, 436-4109. Sponsor: Graduate Students' Association. 2-117 Clinical Sciences Building.

## LIBRARY

2 May, 10 am

Strategic Planning Lecture Series. Larry Woods, director, Information Technology Systems Libraries, University of Iowa, "The Information Arcade: A Library Facility for 2000 and Beyond." L-1 Humanities Centre.

10 May, 10 am

Paul Evan Peters, executive director, Coalition for Networked Information, Washington, D.C., "The Coalition for Networked Information: Promoting the Creation and Utilization of Information Resources in Networked Environments." L-1 Humanities Centre.

## MEDICAL MICROBIOLOGY AND INFECTIOUS DISEASES

25 April, 11 am

Karl Maramorosch, Rutgers University, New Brunswick, New Jersey, "From Discovery to Fame: The Long Road." 2-07 Heritage Medical Research Centre.

## PERINATAL RESEARCH CENTRE

25 April, noon

Patricia Lopez-Jaramillo, professor and director, Mineral Metabolism Unit, Faculty of Medical Sciences, Universidad Central del Ecuador, Quito, "Roles of Calcium and Nitric Oxide in Pregnancy-Induced Hypertension." 2J4.02 Mackenzie Health Sciences Centre.

## PHARMACOLOGY

24 April, 4 pm

Philip E Thorpe, Serena S Simmons Distinguished Chair in Cancer Immunopharmacology, Department of Pharmacology, Southwestern Medical Centre, University of Texas, Dallas, "Tumor Infarction with Immunoconjugates Against the Vasculature of Solid Tumors." 207 Heritage Medical Research Centre.

26 April, 4 pm

Salvador Moncada, research director, Wellcome Research Laboratories, "Nitric Oxide, Biological and Clinical Significance." Bernard Snell Hall.

## PHYSIOLOGY

21 April, 3:30 pm

Arthur Prochazka, "Sensory Control of Normal and Artificially-Evoked Movement." 207 Heritage Medical Research Centre.

28 April, 3:30 pm

Ken Hutchinson, "Doppler Spectral Shape in the Diagnosis of Carotid Artery Disease." 207 Heritage Medical Research Centre.

## POLITICAL SCIENCE AND GEOGRAPHY

26 April, noon

Stephen Lonergan, professor of geography and director, Centre for Sustainable Regional Development, University of Victoria, "The Role of Fresh Water in the Israeli-Palestinian Conflict." 10-4 Tory Building.

## PSYCHOLOGY

28 April, 1 pm

Shelley Parlow, Department of Psychology, Carleton University, "Dyslexia and the Problems of Interhemispheric Communication." P-218 Biological Sciences Centre.

 This symbol denotes environmentally-related seminars/events. If you wish to have an environmentally-related event listed in this way, please contact: The Environmental Research and Studies Centre, 492-6659.

## Excitement of research continues for McCalla Professor

### Sykes making headway in study of protein structures

By Judy Goldsand

**B**rian Sykes is using his 1994-95 McCalla Research Professorship to advance his investigation into the three-dimensional structure of proteins. For 30 years, Dr Sykes has been involved in research using nuclear magnetic resonance (NMR) spectroscopy, a high resolution spectroscopic technique widely used in chemistry, and more recently to determine the three-dimensional solution structures of biological molecules such as DNA, enzymes, and proteins.

Dr Sykes is a member of the Alberta node of the federal government-sponsored Protein Engineering Network of Centres of Excellence (PENCE). As a result of Dr Sykes's work, we know more about the structure of muscle proteins, calcium-binding proteins, and growth factors and their interaction with their receptors.

Determining the structure and function of proteins enables Dr Sykes and his colleagues to develop improved or synthetic proteins. Knowledge about proteins is important because proteins are responsible for most of the essential functions of all living things. Dr Sykes has contributed to the development of synthetic peptide vaccines, anti-freeze proteins and many other medical and industrial applications.

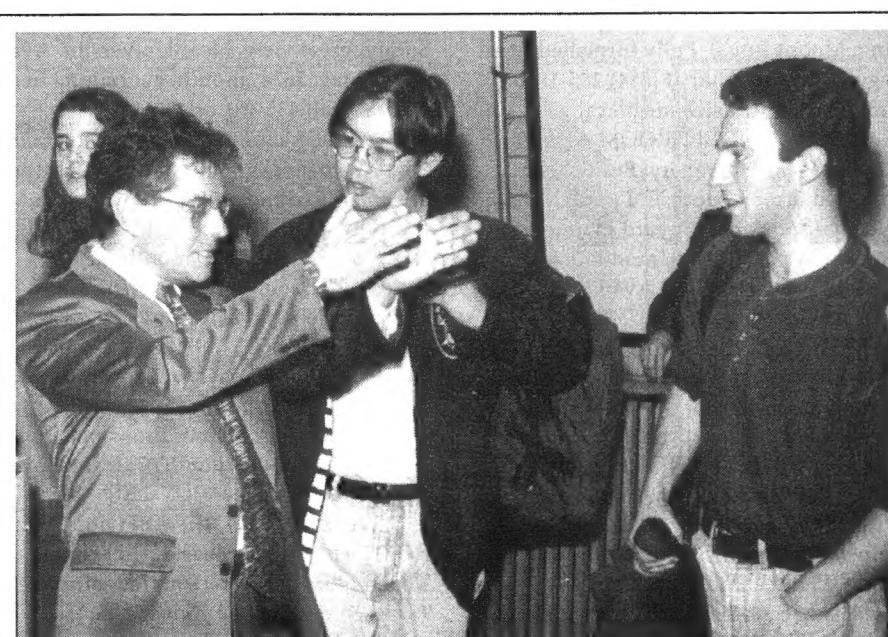
He says, however, that a large source of structural information available from the NMR spectrum is still untapped. This includes the spectral positions of resonances, the NMR chemical shifts that the nuclei experience because of their

unique chemical environment in the molecule, and the spin-spin coupling constants between nuclei.

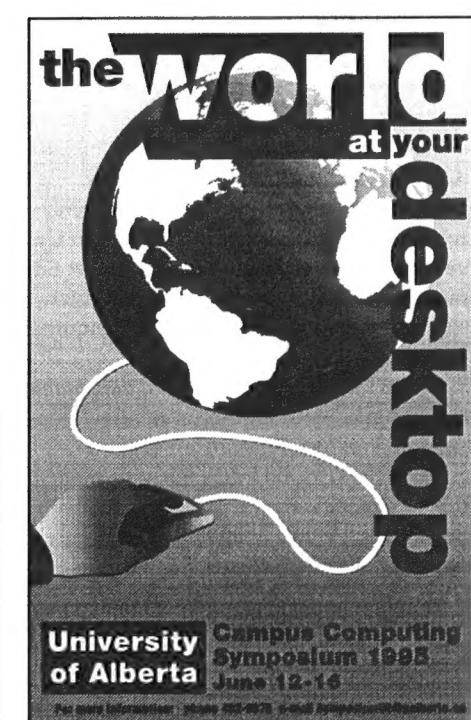
During his McCalla Professorship, Dr Sykes is working to refine the study of protein structures in solution in order to determine structures for much larger proteins than have been possible to date. He says he is making headway in "looking for

avenues to extend the upper molecular weight that we can study."

Dr Sykes continues to be excited by research. He says, "When you have been involved in research as long as I have, you know what is known and what is not known. It is still absolutely stunning when late some evening you realize you've discovered something you know no one else knows!"



**A man in the know:** Norman Ball recently addressed the Eng 101 class. The University of Waterloo professor, the Northern Telecom Professor of Engineering Impact on Society, is one of this country's foremost historians of engineering.



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# POSITIONS



The University of Alberta is committed to the principle of equity of employment. As an employer we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities, and members of visible minorities.

## ACADEMIC STAFF

### TWO-YEAR VISITING POSITION IN SOCIOCULTURAL ANTHROPOLOGY

The Department of Anthropology invites applications for a two-year visiting position in sociocultural anthropology at the Assistant or beginning Associate Professor level. A completed PhD is required. Applicants with a specialization in northern North America will be preferred. We are particularly interested in candidates specializing in cultural ecology and/or current issues affecting aboriginal socie-

ties. The individual will be expected to teach a standard course load (2.5 half courses per year), including an introductory course in sociocultural anthropology as well as courses in the area of geographical specialization and one or more of the following: kinship, social structure, ecological anthropology, anthropological theory, aboriginal rights and economic or political anthropology. The effective date of appointment is 1 July 1995.

Send a *curriculum vitae* and the names of three referees to: Dr D Lubell, Chair, Department of Anthropology, University of Alberta, Edmonton, Alberta, Canada T6G 2H4 (telephone (403) 492-2368; fax (403) 492-5273; e-mail:

[David.Lubell@ualberta.ca](mailto:David.Lubell@ualberta.ca)). The deadline for receipt of applications is 15 May 1995.

In accordance with Canadian Immigration requirements, this advertisement is directed first to Canadian citizens and permanent residents.

### CHAIR, DEPARTMENT OF OCCUPATIONAL THERAPY

Applications are invited for the position of Chair of the Department of Occupational Therapy at the University of Alberta. The Department is located in

newly renovated facilities within the Faculty of Rehabilitation Medicine and offers two degrees: 1) an entry-level bachelor's degree in occupational therapy BSc(OT), and 2) an MSc degree in occupational therapy with both research-thesis and course work-clinical tracks. The department also participates fully in an interdisciplinary PhD degree program in Rehabilitation Science. Initiated in 1960, the BSc(OT) program admits 74 students per year.

Department faculty have active research affiliations with the Perinatal Research Centre, the Centre for Gerontology and the Rick Hansen Centre (studies of spinal cord-injured athletes). Within the Faculty of Rehabilitation Medicine, the Centre for the study of Clinical Education conducts research and training workshops related to clinical supervision, and the Rehabilitation Research Centre is a focal point for multidisciplinary basic and clinical research. The Occupational Performance Analysis Unit provides consultation services to the local community. Close working relationships exist with the Glenrose Rehabilitation Hospital and other community-based programs in occupational therapy. The department is also actively engaged in international education, service and research programs.

Qualified candidates should be occupational therapists, with a doctoral degree, who have a proven background in university administration and a demonstrated commitment to and record of scholarly activity in teaching and research. Specialization in an area of physical function would complement current staff expertise. The successful candidate will be expected to lead the department's strong academic programs, to direct strategic planning and goal-directed initiatives within the University, and to represent the department in professional activities locally, provincially, nationally and internationally.

Rank and salary will be commensurate with qualifications: Associate Professor range: \$48,572 to \$69,664 per annum. Professor range from \$60,355 per annum.

The position is available 1 January 1996. The deadline for receipt of applications is 31 July 1995. Send *curriculum vitae* and names of three references to: Albert M Cook, Dean, Faculty of Rehabilitation Medicine, 3-48 Corbett Hall, University of Alberta, Edmonton, Alberta, Canada T6G 2G4

### CHAIR, DEPARTMENT OF SPEECH PATHOLOGY AND AUDIOLOGY

Applications are invited for the position of Chair of the Department of Speech Pathology and Audiology at the University of Alberta. The department is located in newly renovated facilities within the Faculty of Rehabilitation Medicine and offers three graduate degrees: 1) an entry-level master's degree in speech-language pathology (MSLP degree); 2) an advanced-level MSLP degree for experienced speech-language clinicians that operates on a cost-recovery basis; and 3) an MSc degree in speech-language pathology that requires a thesis. The department also participates fully in an interdisciplinary PhD degree program in Rehabilitation Science. Close working relationships exist with the Glenrose Rehabilitation Hospital and other community-based programs in speech-language pathology.

Qualified candidates should be speech-language pathologists or audiologists with a doctoral degree who have a proven background in university administration and a demonstrated commitment to and record of scholarly activity in teaching and research. Specialization in an area of organic disorders (e.g., voice, resonance, dysarthria, dysphagia, aphasia, or dementia) would complement current staff expertise. The successful candidate will be expected to lead the department's strong graduate programs, to direct strategic planning and goal-directed initiatives within the University, and to represent the department in professional activities locally, provincially, nationally and internationally.

Salary will be commensurate with qualifications: Associate Professor range: \$48,572 to \$69,664 per annum; Professor range from \$60,355 per annum.

The position is available 1 September 1995. The deadline for receipt of applications is 31 May 1995. Send *curriculum vitae* and names of three references to: Albert M Cook, Dean, Faculty of Rehabilitation Medicine, 3-48 Corbett Hall, University of Alberta, Edmonton, Alberta, Canada T6G 2G4

### SUPPORT STAFF

To obtain information on support staff positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall. You can also call the Job Information Line at 492-7205 (24 hours) or consult the weekly Employment Opportunities Bulletin.

## EXHIBITIONS

### FAB GALLERY

Until 30 April

"Power Lines"—the Bachelor of Fine Arts Graduate Show, 1995. Gallery hours: Monday to Friday, 10 am to 5 pm; Saturday and Sunday, 2 to 5 pm. 1-1 Fine Arts Building.

### McMULLEN GALLERY

Until 2 May

"Growing Well"—plant and floral images from the University of Alberta Hospitals' Permanent Collection. Gallery hours: Monday to Friday, 10 am to 4 pm; Saturday and Sunday, 1 to 4 pm; Tuesday, Wednesday, Thursday, 6 to 8 pm. Information: 492-8428 or 492-4211. Mackenzie Health Sciences Centre.

## MUSIC

### DEPARTMENT OF MUSIC

21 April, 8 pm

Master of Music Recital: Esther Chu, piano. Convocation Hall.

22 April, 8 pm

Student Gala featuring the best of graduation recitals. Proceeds from this event will support a new Convocation Hall Scholarship Fund. \$25 general admission includes champagne reception. Convocation Hall.

23 April, 3 pm

Visiting Artists: Duo-Piano Recital featuring Elizabeth Laich and Marcel Bergmann. Admission: \$10 adults, \$5 students and seniors. Convocation Hall.

WINDSOR PARK - Furnished sabbatical house. Three bedrooms, den, office, etc. Living room with southern exposure, three bathrooms. Beginning of July 1995 to August 1996. Dates flexible. \$950/month. 439-2894 or 492-5620.

JULY/AUGUST - Professor's three bedroom house. \$600/month. 435-0155, 492-5095.

GREENFIELD - Three bedrooms, 1 1/2 baths, on crescent, fence, trees, piano, garage. One year starting late summer. \$900. 435-6615.

SUBLET AND SAVE ON DAMAGE DEPOSIT - One bedroom apartment. Sunny, great view. Near University. Available 1 May. \$634/month, everything included. Call 435-161 or 439-4728.

GARNEAU CONDO - Immaculate, quiet. Two blocks south of U of A Hospitals. Living/dining with fireplace, den, two decks, two bedrooms. Kitchen with eating area. Rent \$850/month includes secured parking, heat, water, ensuite laundry. No pets. Call 431-1179.

SHARE BRIGHT, SPACIOUS, QUIET HOUSE - Nine-minute walk from University. Early May for two - four months (possibly longer). Female, nonsmoker, mature, tidy. \$300/month. Call 436-9241 and leave message.

TWO STOREY THREE BEDROOM HOME - 81 Avenue west of 109 Street. Nonsmoking, no pets. \$900/month. Fax 963-8191. Available 1 June.

AVAILABLE 1 MAY - 25 AUGUST - Fully furnished condo, one bedroom and office. 10135 Saskatchewan Drive. Non-

smoker, \$750/month. 439-5863 evenings, 492-0772 days.

HOUSEMATE WANTED to share bright, modern, fully furnished and comfortable home near University. Private bed and bath. Immediately or 1 July. \$300/month includes all utilities. Garage available. Call 452-0655.

WANTING TO SHARE HOME, North Glenora, with nonsmoking female. On bus route to University. \$325/month includes utilities. Garage available. Call 452-0655.

EDMONTON EXECUTIVE HOME - Furnished. Near University. Available late June to mid-August. Nonsmoker. References required. \$700/month plus utilities. 437-2394.

LARGE CONDO FOR RENT - Varscona Towers. 83 Avenue 110 Street. Quiet, secure adult building. Three blocks east of University Hospitals. Two spacious bedrooms, fully equipped kitchen, large living room, great view. \$850/month includes all utilities, parking. Damage deposit \$600. Steve, 436-8801.

GOOD DEAL - Bright, quiet place. Good area. One bedroom basement suite. \$375/month plus utilities. Laundry, parking, close to Old Strathcona and Mill Creek. 433-2702.

GRANDVIEW HEIGHTS - Close to University. 2,200 square feet, five bedrooms, large yard, completely renovated. \$1,200/month. Ideal sabbatical rental. 437-4108.

IDEAL FOR THREE STUDENTS - Bright, three bedroom, main floor. Great location, parking, four appliances, no pets,

## ACCOMMODATIONS FOR RENT

MICHENER PARK - Two bedroom rowhouses and apartments for rent in University residence located in southwest Edmonton. Excellent bus service to University, utilities included. University inquiries welcome, 492-7044.

WEST END CONDO - Two bedrooms facing park. \$650/month, immediate possession. Western Relocation, 434-4629.

EXECUTIVE HOME - Fully furnished in Old Glenora. Easy access to University. September 1995 to April 1996. \$1,200/month. References requested. Telephone (403) 455-4830. Fax c/o 427-0699.

HOUSE WITH FIVE APPLIANCES, close to University and downtown. \$650/month. Available 1 May 1995. 433-5674.

LUXURY LIFESTYLE FOR RENT - 9929 Saskatchewan Drive. View property. \$1,450/month. Available 1 May or sooner. 435-5028.

APRIL TO JULY - Fully furnished three bedroom house on University Avenue. Mature yard, old world charm. \$750/month. 438-7886 or 492-5731.

ROOMATE REQUIRED for 1 May. Large, sunny two bedroom in Old Strathcona. Call 439-7715.

FULLY FURNISHED three bedroom bungalow. Royal Gardens. Finished basement with fourth bedroom. Seven appliances. Piano. 1995-96 academic year. Suit-

able for visiting professor. Nonsmokers. \$850/month plus utilities. 435-9590.

SHARED ACCOMMODATION - Mature, quiet, nonsmoker wanted to share house with female. Near University. \$260 plus utilities. 436-0894.

WINDSOR PARK - Four bedrooms plus den, family room with fireplace. Formal dining room, fully furnished. 1 July 1995 to 30 June 1996. \$1,300/month. Western Relocation Services Ltd. 434-4629.

SPENDING SPRING/SUMMER IN MONTREAL? Apartment available on McGill's campus, downtown Montreal. Minutes from bus/metro, nightlife, shopping, Mount Royal. Fully furnished. Rent negotiable. Call Niki at (514) 285-1850. e-mail: [bpbnb@musicb.mcgill.ca](mailto:bpbnb@musicb.mcgill.ca).

SUNNY ONE BEDROOM APARTMENT - Near University. Furnished, hardwood floors, deck and garden. Tenant will be responsible for yard maintenance.

Nonsmoker only. \$500/month, includes washer/dryer. No pets. Available 1 May to 31 August. 437-1970.

UNIVERSITY OF VICTORIA - Short walk from beaches and UVic, ocean view. Owner on sabbatical. December 1995 through May 1996. Furnished, large and private, two/three bedrooms and den.

Phone 435-2635 or (604) 721-0078.

IDEAL SABBATICAL RENTAL - Deluxe, fully furnished one bedroom condo. Eighteenth floor, river view, pool, sauna, adjacent to campus. Available May.

492-3663, 489-0893.

BELGRAVIA - Three bedroom house. Four appliances, finished basement. Deck. \$850. 1 May. 487-1862, 499-3347.

nonsmokers. \$975/month, utilities included. Available 1 May. Call Audry, 389-4016, or Ian, 435-7861.

ONE BEDROOM BASEMENT SUITE - Stylish, new. University. Nonsmoker. \$320 + utilities. 436-0894.

INTERESTED in buying, selling or leasing a condominium? Call me first. Available from \$33,000 to \$474,500. Ask for Connie Kennedy, condo consultant/specialist, 25 years. Re/Max, 488-4000.

#### ACCOMMODATIONS FOR SALE

VICTORIA PROPERTIES - Knowledgeable, trustworthy realtor with Edmonton references will answer all queries, send information, no cost/obligation. "Hassle-free" property management provided. (604) 595-3200, Lois Dutton, Re/Max ports west, Victoria, B.C.

CONDOMINIUM NEAR CAMPUS for sale by owner. Shows like new. Underground heated parking. 11178 83 Avenue. Garneau Mews. Call Nicole, 431-2852.

HOUSE FOR SALE - McKernan. 1,300 square foot two bedroom semi-bungalow. Bright, open floor plan. South-facing backyard. Two bedroom basement suite rents for \$400/month. Five appliances. Two furnaces (one new). Skylight, deck. \$142,900. Phone Paul (owner), 436-0301.

SALTSpring ISLAND - Spectacular forested lot. Half acre with brook and koi pond. Financing available. Sale by owner. \$89,900. Video available. 438-3579.

FAMOUS LOCKHART GARDENS Condominium, Blue Quill. Three bedrooms, 1 1/2 baths, private south backyard. Good bus service to University. \$89,500. Raymond Cheng, Re/Max, 498-2930.

BEARSPAW CLASSIC two storey home. 2,000 square feet, three bedrooms, french doors, fireplace, extremely quiet cul-de-sac location. Double attached garage, vacant. Raymond Cheng, Re/Max, 498-2930.

UNIVERSITY AVENUE PROPERTY - Mostly land value with small house and very large lot. Easy to show! Call Janet Jenner Fraser at 435-0808 or Gordon King at 438-7170, Spencer Real Estate.

BRIGHT CONTEMPORARY LOFT CONDO close to U of A and river valley. Two bedroom with custom-built, European-style cabinet in master bedroom. Immaculate! Call Janet Jenner Fraser, Spencer Real Estate, 435-0808.

CANMORE CONDO-MINIUM - Private sale. Two bedrooms plus loft. Central location, excellent view. \$110,000. 481-1288.

UPGRADED BUNGALOW VIRTUALLY ON CAMPUS - Walk by 10941 90 Avenue. List of features and extensive upgrades in info box. What a delightful home this is. Basement bone-dry. Hardwood, new ga-

rage, south yard. Price reduced. Hugh Moncrieff, Re/Max, 488-4000.

BELGRAVIA - Quiet location, easy walk to University. Very clean, well maintained, three bedroom bungalow with three bedroom suite. Newer shingles, hot water tank, furnace, fence, landscaping, paint. Refinished hardwood throughout. Double garage. \$179,900. Judy Gill, Re/Max TV, 481-2950.

PLEASANTVIEW - Gorgeous newer home. Quiet location. Over 3,600 square feet with hardwood floors, extensive oak finishing, built-ins, full unspoiled basement, 2 1/2 baths. South backyard, 75' X 128' lot. Dream kitchen with island plus more. Call Anita Marr, Royal LePage, 445-8888 or 438-5100.

ADULT LIVING - Upgraded, exceptionally maintained Riverbend condo with six appliances. Ensuite laundry, east sunny balcony, two full baths, open design. Two underground stalls and more. Secure building with recreational facilities too. \$109,900. Call Anita Marr, Royal LePage, 445-8888 or 438-5100.

SUPERIOR two bedroom, two bath condo. Convenient to the University via Grandin LRT Located at the door. Just four minutes to campus. 1,259 square feet. Woodburning fireplace, ensuite laundry, underground parking, large balcony overlooking park. Call Keith Morrissey, Coldwell Banker Panda Realty. 483-0601 or 940-8272.

RIVERBEND - 1,536 square foot, three bedroom bungalow. 15 years old. Immaculate. Double attached garage, fire-

place, landscaped, quiet. \$173,000. 434-6591.

#### GOODS FOR SALE

CASH PAID for quality books. The Edmonton Book Store, 433-1781.

#### SERVICES

DONNIC WORD PROCESSING - Since 1978, specializing in theses, manuscripts and editing. 453-2769.

DAVID RICHARDS CARPENTRY - Certified journeyman NAIT. Complete interior/exterior residential and commercial renovations including plumbing/electrical. References available. 436-6363.

HOME CLEANING - Hardworking, bonded staff. Reasonable rates. Able Maids, 433-9697.

TECH VERBATIM Word Processing; editing, resumes, theses, medical terminology, campus. Donna, 440-3714.

LEARN THE INTERNET: personalized instruction on accessing valuable Internet resources specific to your field. Chris and Josie Hammond-Thrasher, 433-3677. (cthrasher@freenet.edm.ab.ca)

PROFESSIONAL SEAMSTRESS - Specializes in wedding, bridesmaid gowns, ladies and children's apparel, maternity wear. General alterations. Our fabrics 10 percent off. 469-6292.

STORAGE ROOMS - Indoor, secure, private. Many different sizes. Affordable mini storage. 424-6464.

DOG DOO REMOVAL - Canine Caddy - The professional pooper scooper. 496-2412.

HALLDOR'S - Now on Whyte, is offering quality picture framing and photo restoration. Good parking. 10762 82 Avenue, 439-5445.

HOUSECLEANING - Experienced, reliable professional will clean your home. Excellent references. 436-0894.

HOUSECLEANING OR HOMECARE - Professional. Call Dr Bowen or Phil. Employees insured and bonded. 469-6292.

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